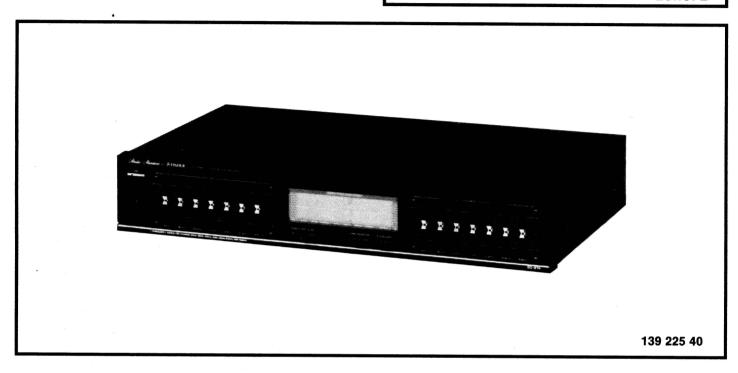
SERVICE MANUAL



GRAPHIC EQUALIZER

EQ-874

EUROPE



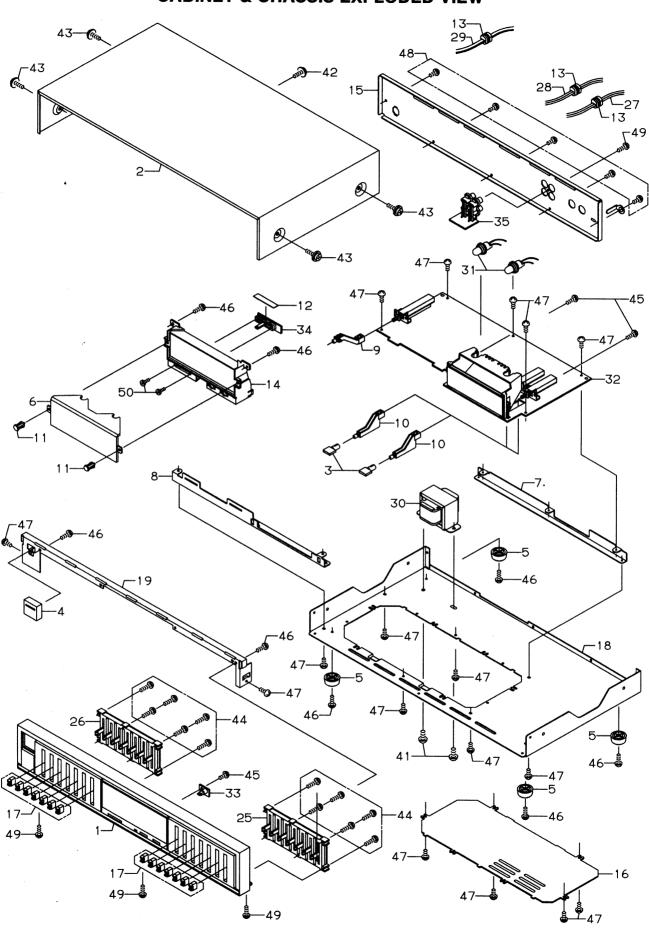
SPECIFICATION

Input Impedance	50 kΩ
Output Impedance	
T.H.D. (Flat Position)	
at 1 V Output	0.02 %
at 5 V Output	0.02 %
Gain (Flat Position)	+0 dB, -1.0 dB
Max. Output Voltage at 1 % T.H.D	5 V
Frequency Response	
20 Hz - 20 kHz	+0.1 dB, -0.5 dB
Tone Control Response	
Center of Frequency	±10 %
64 Hz	±12 dB
160 Hz	±12 dB
400 Hz	± 12 dB
1 kHz	±12 dB
2.5 kHz	±12 dB
6.3 kHz	±12 dB
15.6 kHz	±12 dB

S/N (IHF A, Reference 1 V, Flat Position) Crosstalk	100 dB
100 Hz	80 dB
1 kHz	
15 kHz	60 dB
GENERAL	
Power Requirements (50Hz)	220 V AC
Power Consumption	10 W
Dimentions (WxHxD)	
Weight (approx)	3.2 kg

- Specifications and design are subject to change without notice. -

CABINET & CHASSIS EXPLODED VIEW



CABINET & CHASSIS PARTLIST

Ref. No.	Parts No.	Description	Q′ty
PACI	KAGE		
	131-2-3901-10300	Staple SS19mm	14
	131-6-1169-14034	Box Corrugate-Exp	1
	131-6-3009-35090	Pad	2
	131-6-3069-16350	Patching Sheet	1
	141-6-2519-22290	Sheet Polyethylene	1
	141-6-4559-03300	Serial No. Sheet	2
ACCI	ESSORY		
	131-6-2719-10401	Bag Fan	1
	142-6-4119-33426		1
CABI	NET		
	4-2352-02944	Connector 1P Assy	1
	4-2359-78834	Connector 1P Assy	1
	4-2379-21520	Terminal Lug	1
	141-6-4559-03300	Serial No. Sheet	1
1	131-0-1016-46101	Cabinet Front Assv	1
2	131-2-1410-31500	Cover	1
3	131-2-1601-70103	Knob	2
4	131-2-1601-85209	Knob Push	1
5	131-2-1801-14100	Leg	4
6	131-2-3608-17400	Filter (Clear)	1
7	131-2-3614-29400	Mount P.C.B.	1
8	131-2-3614-29500	Mount P.C.B. (F)	1
9	131-2-4219-18800	Shaft	1
10	131-2-4219-19900	Shaft	2
11	131-2-4221-00600	Rivet	2 2
12	131-2-6108-12800	Plate Sever	1
13	131-2-6111-14200	Bushing (4N-4)	3
14	141-0-1149-17700	Mount Screen Assy	1
15	141-2-1219-37022	Panel Rear	1
16	141-2-1259-11300	Cover Bottom	1
17	141-2-1659-46200	Knob Slide	14
18	141-2-3119-31900	Chassis	1
19	141-2-3519-74203	Mount Cabi Front	1
25	4-2229-77140	Slide VR Unit	1
26	4-2229-77141	Slide VR Unit	1
27	4-2369-74592	Plug Cord RCA	1

Ref. No.	Parts No.	Q′ty	
28	4-2369-74593	Plug Cord RCA	1
29	▲ 4-2432-00071	Power Cord	1
30	▲ 4-2512-35120	Power Trans Tabuchi	. 1
31	4-6129-70723	Lamp 16V 150mA	2
32	141-0-1939-21300	Main P.C.B. Assy	1
33	141-0-1939-21310	LED P.C.B. Assy	1
34	141-0-1939-21320	Volume P.C.B. Assy	1
35	141-0-1939-21330	Pinjack P.C.B. Assy	1
41	131-2-4201-27801	Screw C-Tite 4X8 Z1	2
42	141-2-4219-33101	+ BTS-B 3.0X8 Sems BL	1
43	141-2-4219-38400	+BTS-B 4 x 8 Sems BLK	4
44	411 020 5409	SCR S-TPG BRZ 2.6X14	12
45	411 020 5706	SCR S-TPG BRZ 2.6X8	3
46	411 020 5904	SCR S-TPG BRZ 3X10	8
47	411 020 7700	SCR S-TPG BRZ 3X6	17
48	411 099 9704	SCR S-TPG BRZ 3X6	5
49	411 099 9803	SCR S-TPG BRZ 3X8	4
50	411 030 5901	SCR BIN 2X4	2

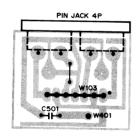
NOTES:

- Parts order must contain Model Number, Part Number and Description.
- Ordering quantity of screws and resistors must be multiple of 10 pcs.

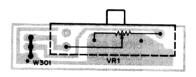
PRODUCT SAFETY NOTICE

Each precaution in this manual shold be followed during servicing. Components identified with the IEC symbol \triangle in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with \triangle , use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual. Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

PINJACK P.C.BOARD (BOTTOM VIEW)



VOLUME P.C.BOARD (BOTTOM VIEW)



LED P.C.BOARD (BOTTOM VIEW)



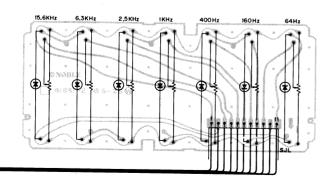
P.C.BOARD PART LIST

Ref. No.	Parts No.	Description	Q′ty	Ref. No.	Parts No.	Descrip	tion			Q′ty
MAIN	P.C.B. ASSY			C204	403 049 1609	ELECT	1U	М	50V	1
32	141-0-1939-21300	Main P.C.B. Assy	1		403 009 8105	CERAMIC	100P	. K	50V	1
	4-2359-79150	Socket Jumper 11P	2		403 009 8105	CERAMIC	100P	K	50V	1
	4-2369-73130	Plug 3P EC Terminal 1P	2 2	C207 C208	403 009 8105 403 009 8105	CERAMIC CERAMIC	100P 100P	K K	50V 50V	1
	4-2372-00830 4-9549-70120	LCD, FTD6497	1	C209	403 049 5409	ELECT	100	м	50V	1
	111-2-6220-11100	Wire Wrap Terminal	11		403 049 5409	ELECT	10U	М	50V	1
	131-2-6306-12300	Reflector	1		403 067 8208	MT-COMPO	0.068U	J	50V	1
	131-2-6308-26100	Filter	1		403 067 8208	MT-COMPO	0.068U	J	50V	1
	131-2-9800-01004	Jumper	1		403 096 8606	ELECT	1.5U	K	50V	1
014/04	411 002 8503	SCR PAN 3X6	1		403 096 8606	ELECT	1.5U	K	50V	1
SW01 SW02	4-2312-06160	Push SW 1 KEY (POWER SW.)	1 1		403 060 2005 403 060 2005	POLYESTER POLYESTER	0.027U 0.027U	J	50V 50V	1
W101	4-2312-06170 4-2359-78831	Push SW 2 KEY (TAPE MONITOR/EQ) Connector 1P Assy	i	C217	403 067 8307	MT-COMPO	0.68U	Ĵ	50V	i
IC01	409 036 8101	IC M5229P	i		403 067 8307	MT-COMPO	0.68U	J	50V	1
IC02	409 036 8101	IC M5229P	1		403 057 0106	POLYESTER	0.01U	J	50V	1
IC03	409 073 8706	IC LA6458D	1		403 057 0106	POLYESTER	0.01U	J	50V	1
IC04	409 073 8706	IC LA6458D	1	C221	403 067 7003	MT-COMPO	0.27U	J	50V	1
IC05	409 073 8706	IC LA6458D	1	C222	403 067 7003	MT-COMPO	0.27U	J	50V	1
IC06 IC07	409 073 8706 409 074 1102	IC LA6458D IC LC7561	1 1	C223 C224	403 061 1908 403 061 1908	POLYESTER POLYESTER	3900P 3900P	J	50V 50V	1
	405 013 6801	TR 2SC2274-E	i		403 067 5603	MT-COMPO	0.1U	J	50V	i
or	405 013 7006	TR 2SC2274-F	i		403 067 5603	MT-COMPO	0.1U	J	50V	i
	405 006 6504	TR 2SA984-E	1	C227	403 058 7906	POLYESTER	1800P	J	50V	1
or	405 006 6702	TR 2SA984-F	1		403 058 7906	POLYESTER	1800P	J	50V	1
Q103	405 004 4502	TR 2SA608-F-NP	1		403 061 3704	POLYESTER	0.039U	J	50V	1
or	405 004 5004	TR 2SA608-G-NP	1		403 061 3704	POLYESTER	0.039U	J	50V	1
	405 019 2708	TR 2SC536-F-NP TR 2SC536-G-NP	1 1	C231	403 031 2805 403 031 2805	CERAMIC CERAMIC	680P 680P	K	50V 50V	1
or	405 019 3804 405 019 2708	TR 2SC536-F-NP	i		403 058 9603	POLYESTER	0.018U	Ĵ	50V	1
or	405 019 3804	TR 2SC536-G-NP	i		403 058 9603	POLYESTER	0.018U	Ĵ	50V	1
	405 016 2206	TR 2SC2878-A	1		403 020 4902	CERAMIC	270P	J	50V	1
or	405 016 2305	TR 2SC2878-B	1	C236	403 020 4902	CERAMIC	270P	J	50V	1
Q204	405 016 2206	TR 2SC2878-A	1	C237		POLYESTER	6800P	J	50V	1
or	405 016 2305	TR 2SC2878-B	1		403 062 9705	POLYESTER	6800P	J	50V	1
	405 016 2206	TR 2SC2878-A	1 1		403 067 7706 403 067 7706	MT-COMPO MT-COMPO	0.047U 0.047U	J	50V 50V	1
or	405 016 2305 405 027 0505	TR 2SC2878-B TR 2SK246-GR	1		403 057 0106	POLYESTER	0.047 U	J	50V	1
or	405 027 0303	TR 2SK246-BL	i		403 057 0106	POLYESTER	0.01U	Ĵ	50V	i
	405 027 0505	TR 2SK246-GR	1		403 061 1908	POLYESTER	3900P	J	50V	1
or	405 034 5104	TR 2SK246-BL	1	C306	403 061 1908	POLYESTER	3900P	J	50V	1
	407 004 9105	DIODE DSF10C-BT	1		403 058 0808	POLYESTER	1500P	J	50V	1
	407 004 9105	DIODE DSF10C-BT	1	C308		POLYESTER	1500P	J	50V	1
		DIODE DSF10C-BT	1 1	C309	403 057 6306 403 057 6306	POLYESTER POLYESTER	1200P 1200P	K K	50V 50V	1
	407 004 9105 407 049 9504	DIODE DSF10C-BT ZENER DIODE GZA20Y	1		403 057 6306	POLYESTER	1200P	ĸ	50V	i
D103	407 049 9504	ZENER DIODE GZA20Y	i		403 057 6306	POLYESTER	1200P	ĸ	50V	1
	407 004 9105	DIODE DSF10C-BT	1	C313	403 056 8608	POLYESTER	1000P	K	50V	1
D108	407 004 9105	DIODE DSF10C-BT	1	C314	403 056 8608	POLYESTER	1000P	K	50V	1
	407 005 3805	DIODE DS442-BT	1		403 049 1609	ELECT	10		50V	1
	407 005 3805	DIODE DS442-BT	1		403 040 2704	ELECT	22U	M M	10V 50V	1
	407 005 3805	DIODE DS442-BT	1 1		403 049 1609 403 049 1609	ELECT ELECT	1U 1U	M	50V	1
	407 005 3805 407 005 3805	DIODE DS442-BT DIODE DS442-BT	1		403 049 1609	ELECT	10	M	50V	i
	407 005 3805	DIODE DS442-BT	1		403 049 1609	ELECT	10		50V	1
	407 005 3805	DIODE DS442-BT	1		403 049 1609	ELECT	1U	М	50V	1
D308	407 005 3805	DIODE DS442-BT	1		403 049 1609	ELECT	10	М	50V	1
	407 050 4802	ZENER DIODE GZA5.1Y	1		403 049 1609	ELECT	10	М	50V	1
	407 005 3805	DIODE DS442-BT	1		403 049 1609	ELECT	10	M	50V	1
	403 074 2701	CERAMIC 0.047U Z 50V CERAMIC 0.047U Z 50V	1 1		403 060 6607 403 038 2402	POLYESTER ELECT	3300P 100U	K	50V 6.3V	1
	403 074 2701 404 012 7000	CERAMIC 0.047U Z 50V CERAMIC 0.01U P 500V	1		403 038 2402	ELECT	47U		25V	i
	404 012 7000	CERAMIC 0.01U P 500V	i		403 050 1209	ELECT	2.2U		50V	1
	404 012 7000	CERAMIC 0.01U P 500V	1		403 050 1209	ELECT	2.2U		50V	1
	404 012 7000	CERAMIC 0.01U P 500V	1	C401	403 074 2701	CERAMIC	0.047U	Z	50V	1
C107	403 054 2509	ELECT 470U M 35V	1		401 060 6504	OXIDE-MT		JB	1W	1
	403 054 2509	ELECT 470U M 35V	1		401 060 6504	OXIDE-MT		JB	1W	1
	403 047 4206	ELECT 47U M 25V	1		401 022 1905	CARBON			1/4W	1
	403 047 4206	ELECT 47U M 25V	1		401 022 1905	CARBON FUSIBLE RE			1/4W 1/4W	1
	403 047 4206 403 047 4206	ELECT 47U M 25V ELECT 47U M 25V	1		402 015 7706 402 015 7706	FUSIBLE RE			1/4W	1
	403 047 4206	ELECT 470 M 25V	1		401 018 2800	CARBON			1/4W	1
	403 047 4206	ELECT 47U M 25V	i		401 020 0801	CARBON			1/4W	1
	403 045 0606	ELECT 100U M 25V	1		401 027 5502	CARBON			1/6W	1
	403 047 4206	ELECT 47U M 25V	1		401 024 7400	CARBON			1/6W	1
	403 051 2007	ELECT 4.7U M 50V	1	R111		CARBON			1/4W	1
	403 009 8105	CERAMIC 100P K 50V	1		401 024 7004	CARBON			1/6W	1
	403 009 8105	CERAMIC 100P K 50V ELECT 1U M 50V	1 1		401 012 5708 401 027 0507	CARBON CARBON	470K		1/4W 1/6W	1
0203	403 049 1609	LLLO1 10 IVI 50V	į	11200	TO 1 021 0001	5, 11 IDOI1	7101	3/1	5	

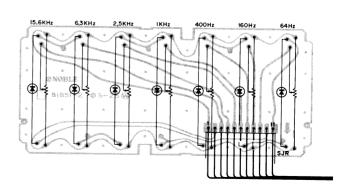
P.C.BOARD PART LIST

Ref. No.	Parts No.	Descrip	otion	Q′ty	Ref. No.	Parts No.	Descr	iption		Q′ty
	401 027 0507	CARBON	470K JA 1/6W	1	R324	401 026 1307	CARBON	27K	JA 1/6W	
	401 027 2600	CARBON	5.6K JA 1/6W	1	R325	401 026 4902	CARBON		JA 1/6W	-
R208		CARBON	5.6K JA 1/6W	1	R326	6 401 026 4902	CARBON		JA 1/6W	
	401 027 2600	CARBON	5.6K JA 1/6W	1	R327	401 026 4902	CARBON		JA 1/6W	-
	401 027 2600	CARBON	5.6K JA 1/6W	1	R328		CARBON		JA 1/6W	
R211	401 026 6609	CARBON	390 JA 1/6W	1	R329		CARBON		JA 1/6W	
R212	401 026 6609	CARBON	390 JA 1/6W	1		401 026 4902	CARBON		JA 1/6W	
R213	401 024 7400	CARBON	10K JA 1/6W	i	R331		CARBON		JA 1/6W	
R214	401 024 7400	CARBON	10K JA 1/6W	1		401 026 4902	CARBON			
R215	401 024 7004	CARBON	1K JA 1/6W	i		401 023 3700	CARBON		JA 1/6W	
R216	401 024 7004	CARBON	1K JA 1/6W	i		401 018 3807			JA 1/4W	
	401 024 7707	CARBON	100K JA 1/6W	1		401 018 3807	CARBON		JA 1/4W	1
	401 024 7707	CARBON	100K JA 1/6W	1			CARBON		JA 1/4W	1
	401 026 4605	CARBON	33K JA 1/6W	1		401 026 4605	CARBON		JA 1/6W	1
R220	401 018 4903	CARBON	33K JA 1/4W	•		401 012 8105	CARBON		JA 1/4W	1
	401 027 5205	CARBON		1		401 026 9907	CARBON		JA 1/6W	1
	401 027 5205	CARBON	680 JA 1/6W	1		401 026 9907	CARBON		JA 1/6W	1
	401 027 5205	CARBON	680 JA 1/6W	1		401 026 4308	CARBON	3.3K	JA 1/6W	1
	401 027 5205		680 JA 1/6W	1		401 026 4308	CARBON	3.3K	JA 1/6W	1
	401 027 5205	CARBON	680 JA 1/6W	1		401 024 7004	CARBON	1K	JA 1/6W	1
	401 027 5205	CARBON	680 JA 1/6W	1		401 024 7004	CARBON	1K	JA 1/6W	1
		CARBON	680 JA 1/6W	1		401 025 8703	CARBON	220K	JA 1/6W	1
	401 027 5205	CARBON	680 JA 1/6W	1		401 025 8703	CARBON	220K	JA 1/6W	1
	401 027 5205	CARBON	680 JA 1/6W	1		401 024 7707	CARBON	100K	JA 1/6W	1
	401 027 5205	CARBON	680 JA 1/6W	1	R348	401 024 7707	CARBON	100K	JA 1/6W	1
	401 027 5205	CARBON	680 JA 1/6W	1	R349	401 026 4902	CARBON	330K	JA 1/6W	1
	401 027 5205	CARBON	680 JA 1/6W	1	R350	401 026 4902	CARBON		JA 1/6W	1
	401 027 5205	CARBON	680 JA 1/6W	1	R401	401 022 3107	CARBON		JA 1/4W	1
	401 027 5205	CARBON	680 JA 1/6W	1	R402	401 022 3107	CARBON		JA 1/4W	1
	401 027 5205	CARBON	680 JA 1/6W	1		401 021 3009	CARBON		JA 1/4W	1
	401 027 3201	CARBON	560K JA 1/6W	1	R404	401 021 3009	CARBON		JA 1/4W	1
	401 024 7707	CARBON	100K JA 1/6W	1				0.010	0/1/411	•
R303	401 027 2600	CARBON	5.6K JA 1/6W	1	LED	P.C.B. ASSY				
R304	401 024 8001	CARBON	1M JA 1/6W	1	33	141-0-1939-21310	LED P.C.B. A	eev		4
R305	401 025 2305	CARBON	150K JA 1/6W	1		131-2-4208-33600	Spacer	339		1
R306	401 024 7400	CARBON	10K JA 1/6W	1		131-2-9800-01055	Jumper			
R307	401 024 8001	CARBON	1M JA 1/6W	i	D401	407 027 4606	LED SLP-151	ь		
R308	401 025 2305	CARBON	150K JA 1/6W	1	D-101	407 027 4000	LLD SLF-131	Ь		1
R309	401 024 7400	CARBON	10K JA 1/6W	i	VOL	JME P.C.B. ASSY				
	401 024 8001	CARBON	1M JA 1/6W	i	34	141-0-1939-21320	Values D.C.			
	401 025 2305	CARBON	150K JA 1/6W	i	VR1		Volume P.C.E	,		1
	401 024 7400	CARBON	10K JA 1/6W	1	VILI	4-2229-75970	Slide VR 10K	AX1		1
	401 027 3201	CARBON	560K JA 1/6W	1		131-0-4006-31418	Cord Assy			1
	401 024 7707	CARBON	100K JA 1/6W		DIA!	104 0 0 0 1004				
	401 027 2600	CARBON		1		ACK P.C.B. ASSY				
	401 025 8703	CARBON	5.6K JA 1/6W	1	35	141-0-1939-21330	Pinjack P.C.B	3. Assy		1
	401 026 4605		220K JA 1/6W	1		4-2352-01700	Pin Jack 4P			1
	401 025 7805	CARBON	33K JA 1/6W	1	C501	403 074 2701	CERAMIC	0.047U	Z 50V	1
		CARBON	2.2K JA 1/6W	1						
	401 024 7707	CARBON	100K JA 1/6W	1	NOTE	S:				
	401 025 1902	CARBON	15K JA 1/6W	1	4 -	\				
	401 024 7004	CARBON	1K JA 1/6W	1	1. F	arts order must co	ontain Model l	Number, F	Part Number	and De-
	401 024 7707	CARBON	100K JA 1/6W	1		cription.				
H323	401 026 6609	CARBON	390 JA 1/6W	1		Ordering quantity of ecs.	screws and r	esistors m	nust be mult	iple of 10

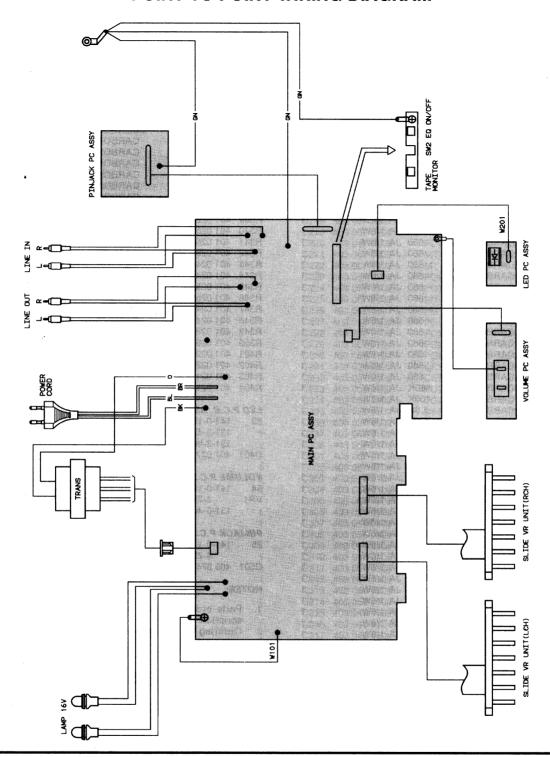
SLIDE VOLUME UNIT (LEFT)



SLIDE VOLUME UNIT (RIGHT)



POINT TO POINT WIRING DIAGRAM



SWITCH POSITION TABLE

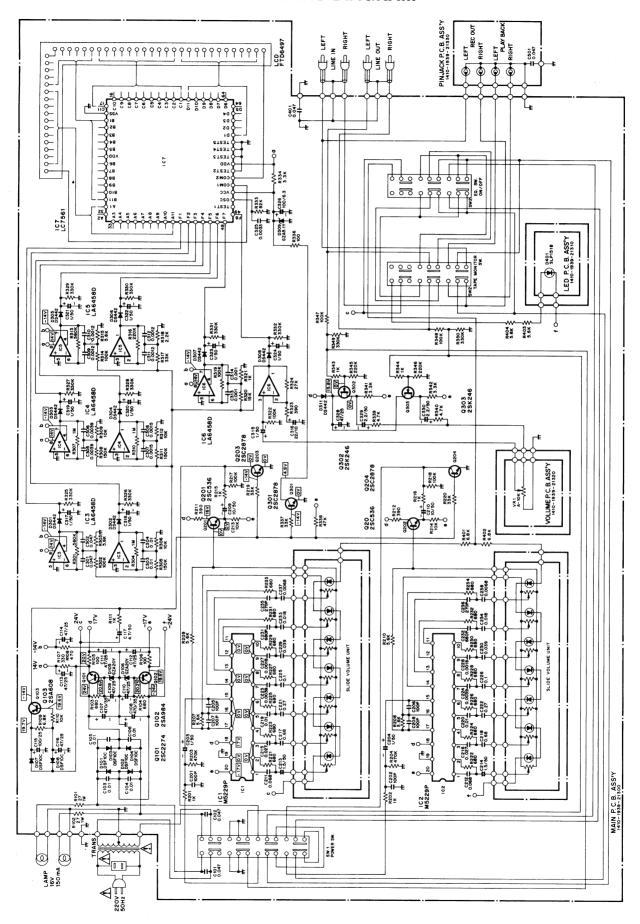
No.	Name	Position
SW1 SW2	POWER Switch TAPE MONITOR Switch EQUALIZER Switch	OFF SOURSE OFF

- 1. All resistors values are indicated in "ohm" ($K=10^3,\,M=10^6$). 2. All capacitors values are indicated in "µF" ($P=10^{-12}$).
- 3. All voltages indicated on the schematics are measured under the following conditions.
 - a. Use a V.T.V.M.

- b. All voltages $\pm 10\%$ with respect to chassis ground.
- c. No signals at input terminals.
- d. AC input at 220 volts 50Hz
- 4. This is a basic schematic diagram.

Because Fisher products are subject to continuous improvement, Fisher Corporation reserves the right to make any changes or modifications without notice.

SCHEMATIC DIAGRAM



MAIN PRINTED CIRCUIT BOARD (BOTTOM VIEW)

